

Clarity Connect



Clarity Overview

- NYState C Corp. Started providing Internet Access summer of 1995.
 - early adopter of ISDN
 - one of the first DSL providers in the Nation (summer 1996)
 - providing commercial fixed wireless since 1997

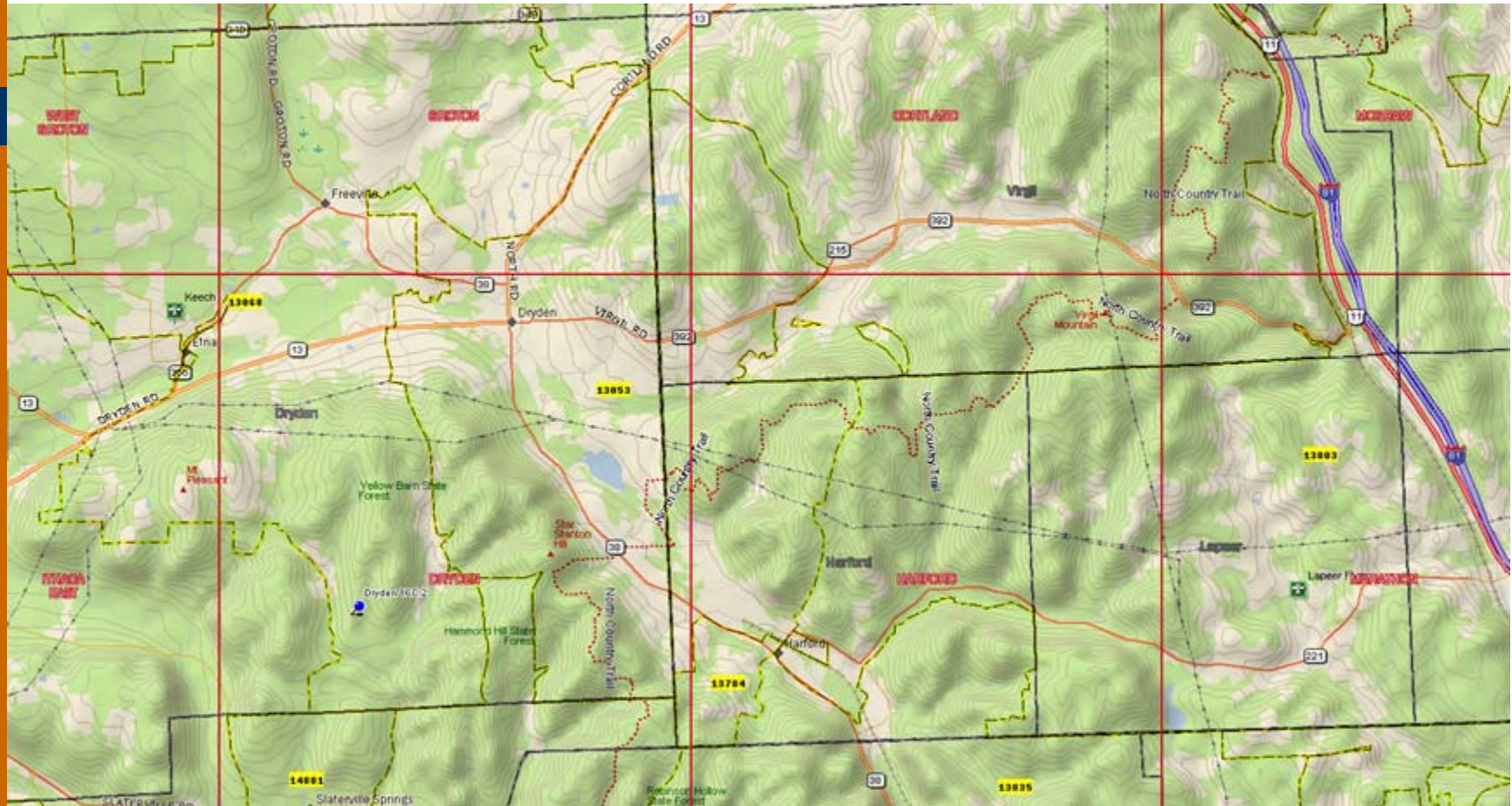
Clarity Overview

- Chuck Bartosch
 - former physicist (Stanford undergrad, Cornell grad school)
 - Magnetospheric physics at Lockheed-Martin
 - 2D phase transitions, laser-surface adsorbate interaction studies
 - Multiple successful technology businesses since 1985

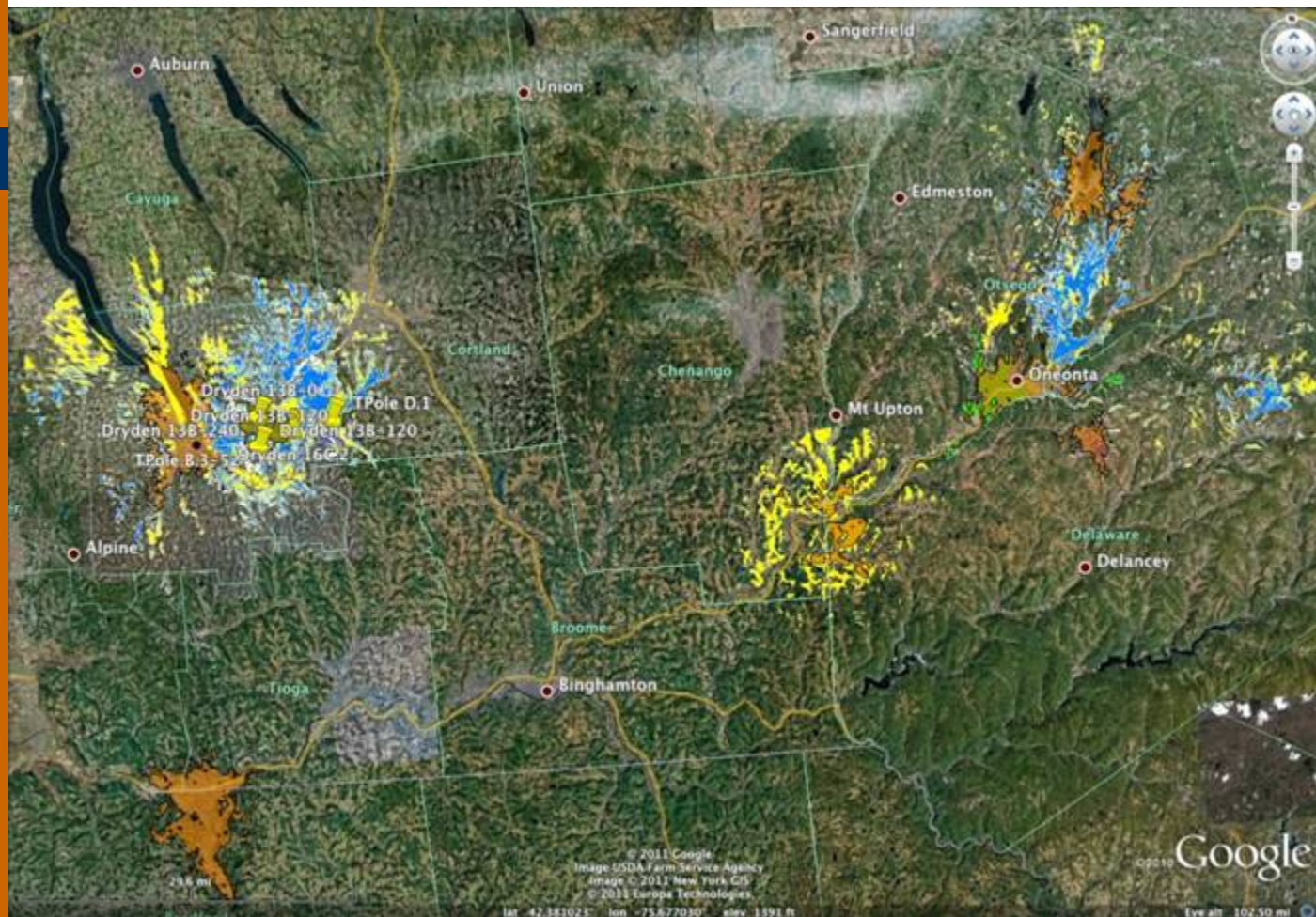
Geography

- Serving upstate NY and northern PA
 - Tompkins, Tioga, Otsego, Delaware Counties in NY
 - Bradford County in PA
- 1200 square miles covering 105K people, with 42K in rural areas outside of cities or primary villages, 63K in cities or primary villages

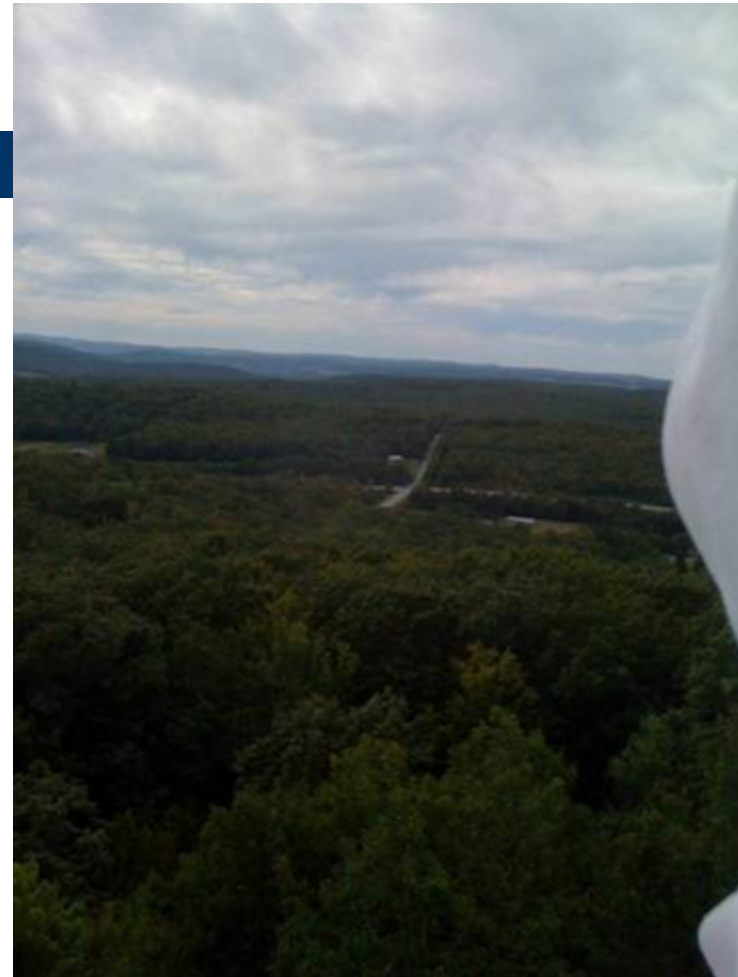
Geography



Overall Coverage Map



View From Sidney Tower



Castle Mountain



Technology

- Rolling out Alvarion Dual-Diversity WiMax 802.16e equipment
- Backhauls are unlicensed Alvarion or Ubiquity for backup or smaller sites
- Critical sites use Ceragon licensed links at up to 400 Mbps full duplex



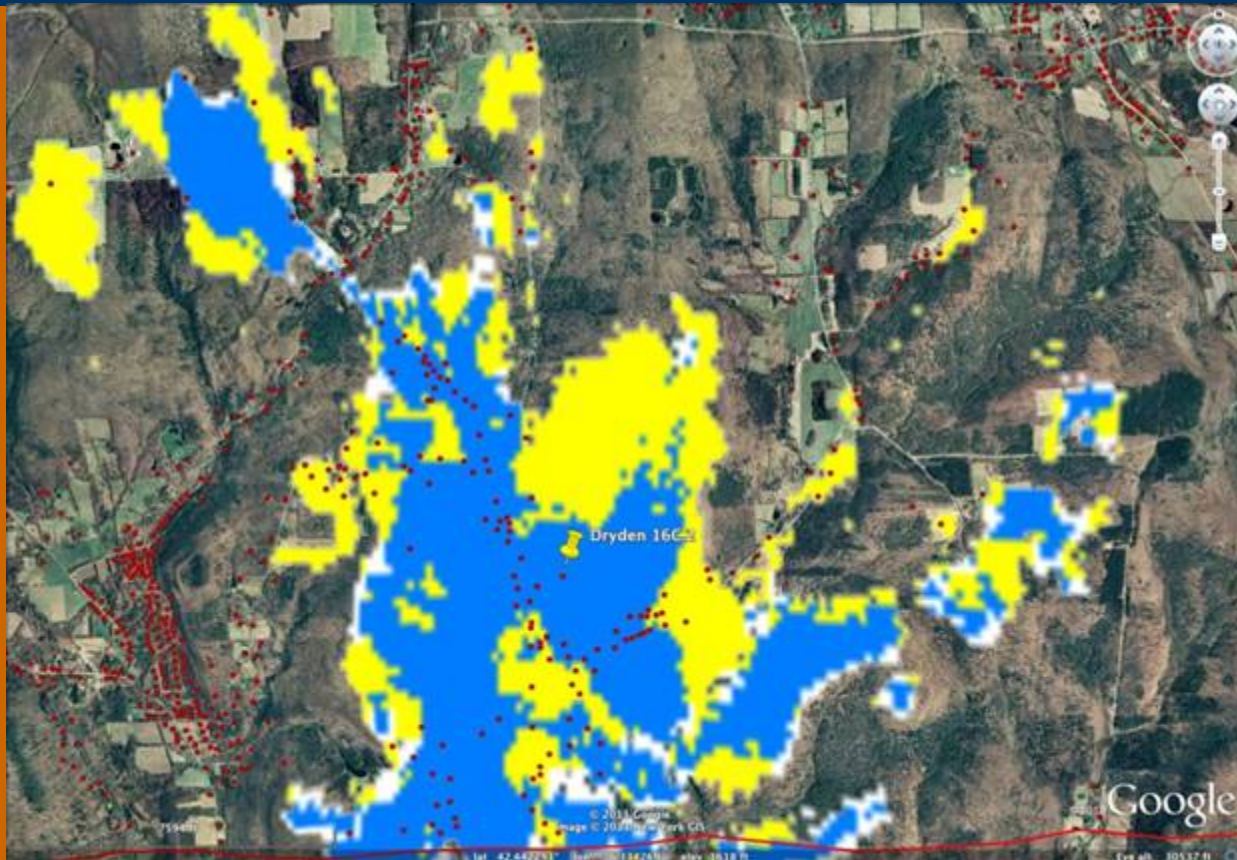
Example Rollout: Town of Dryden



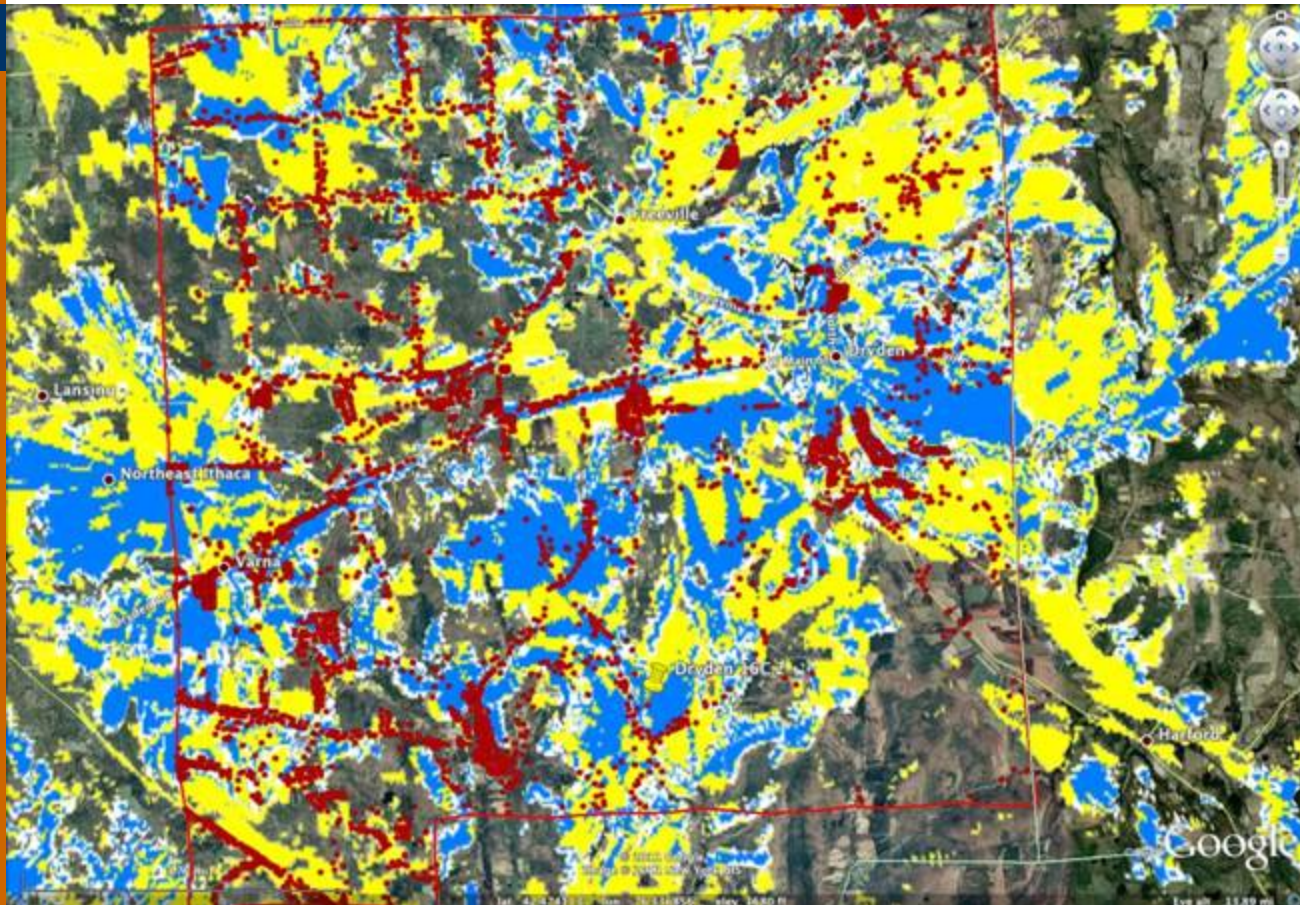
- Unserved areas



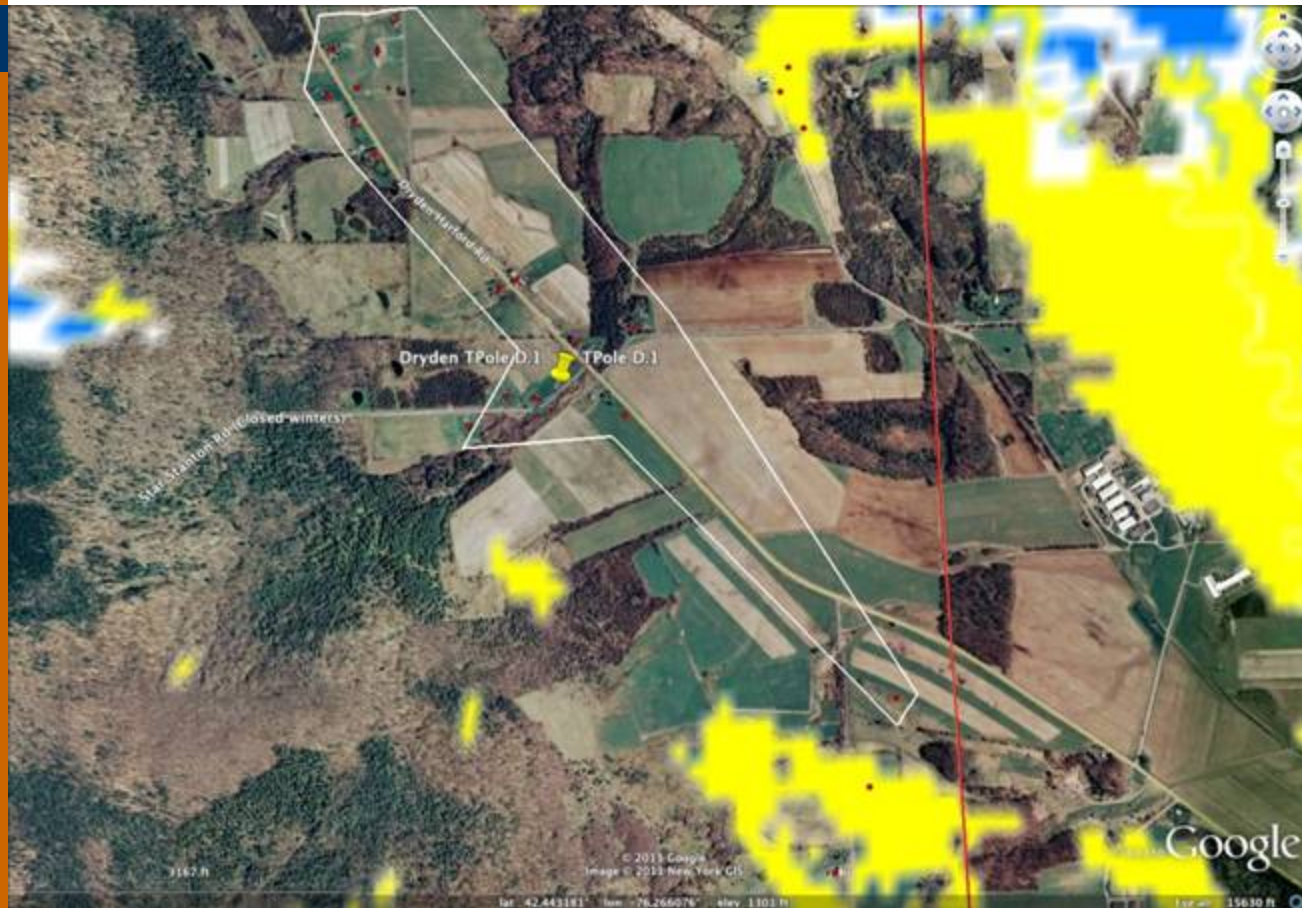
- Coverage from Dryden 16C.2
Example Rollout: Town of Dryden



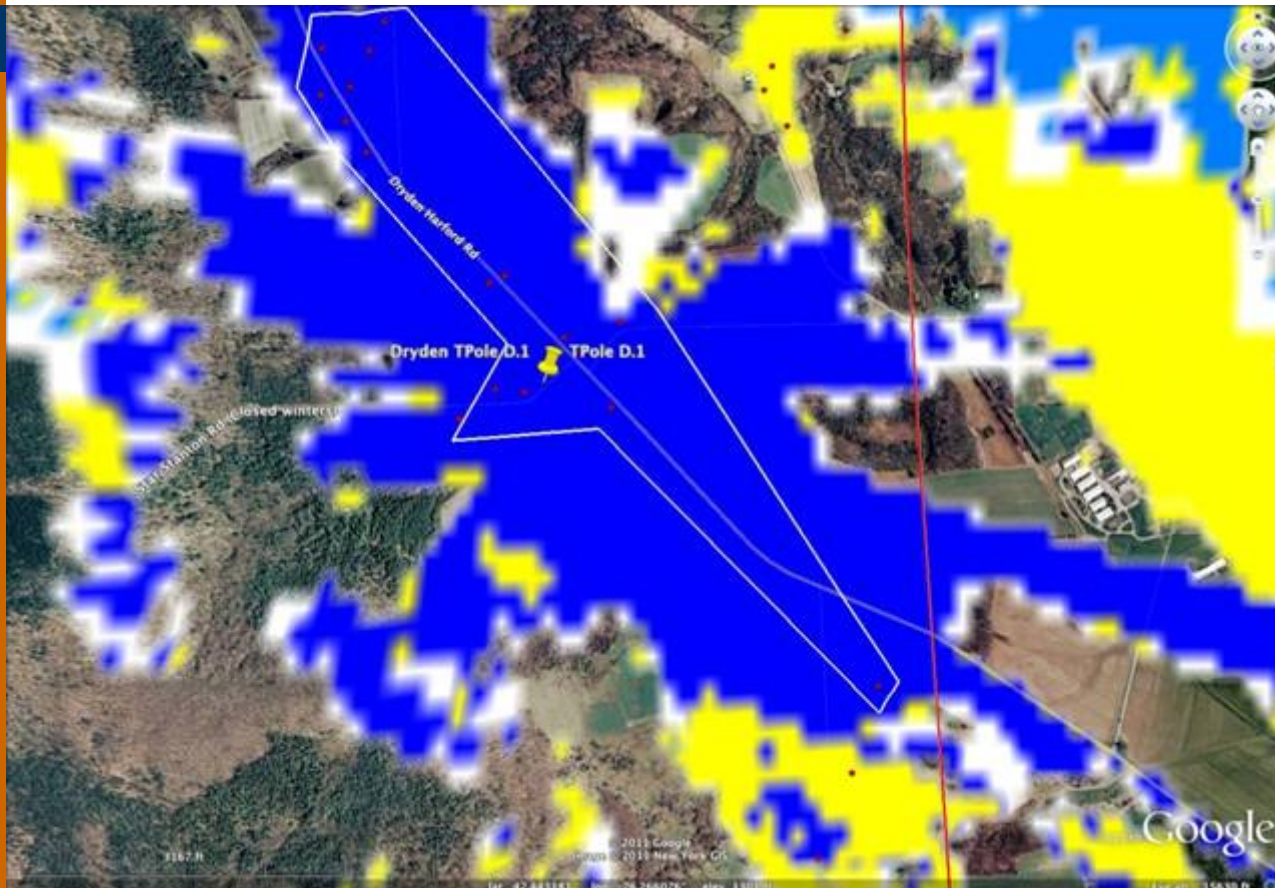
Dryden Project Total Coverage



Dryden Gap D



Dryden Microcell D.1: reaches 17 people



Costs of Microcell: \$4,800

- Telephone pole
- NEMA enclosure
- Radios (distribution and backhaul)
- Dual PS router
- Remote reboot
- UPS
- Mounts, cables, etc.

3G Coverage Study

